## WHAT IS CLAIMED IS:

	(1) A communication system comprising: a first radio network operating using
	a first communication protocol;
	a second radio network operating using
5	a second communication protocol;
•	a mobile network device having a
	single radio unit capable of participating in
	both the first and second radio networks;
•	the mobile network device
10	participating as a slave device to the first
10	radio network pursuant to the first
	communication protocol while participating as a
	master device to the second radio network
	pursuant to the second communication protocol;
15	and
	the mobile network device resolving
	conflicts between the first and second
	communication protocols.

- (2) A communication system comprising:
  - a main radio network;
  - a radio subnetwork;

a mobile network device having a first radio transceiver for communicating with the main radio network and a second radio transceiver for communicating with the radio subnetwork;

the mobile network device participating as a slave device to the main radio network while participating as a master device to the radio subnetwork.

(3) A communication system comprising: a first radio network operating using

a first communication protocol;

a second radio network operating using

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a second communication protocol;

a mobile network device having a single radio unit capable of participating in both the first and second radio networks;

the mobile network device

participating as a slave device to the first

radio network pursuant to the first

communication protocol while participating as a

master device to the second radio network

pursuant to the second communication protocol;

and

the mobile network device entering a state of low power consumption when not communicating with either the first or the second radio network.

(4) A communication system comprising: a first radio network comprising a first plurality of network devices;

a second radio network comprising a second plurality of network devices;

a mobile network device configured to participate as a member of both the first and second pluralities of network devices;

when within range of one of the second plurality of network devices, the mobile network device participates as a master device in the second radio network; and

when within range of one of the first plurality of network devices, the mobile network device participates as a slave device in the first radio network.

the second plurality of network devices entering a state of low power consumption when communication with the mobile network device is not available.

(5) A communication system comprising:

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a first radio network comprising	~ ~
a liist ladio medicali	y a
first plurality of network devices;	
a second radio network comprisi	ng a
second plurality of network devices;	
a mobile network device configu	red to
participate as a member of both the first	and
second pluralities of network devices;	
when within range of one of the	
plurality of network devices, the mobile	network
device participates as a master device in	the
second radio network; and	
when within range of one of the	first
plurality of network devices, the mobile	network
device participates as a slave device in	the
first radio network.	
(6) An RF local area network compris	
a first network device, the fir	
network device transmitting using battery	, bower,
a second network device;	. device
means within the second network	
for identifying a range value indicative	twork
distance between the first and second neg	CWOLK
devices;	onsive
the second network device response	
to the identifying means by transmitting	and
range value to the first network device; the first network device, upon	receipt
of the range value, identifying an appro	priate
data rate for subsequent transmission to	the
data rate for subsequent transmissions and second network device.	
15 second network device.	
(7) An RF local area network compri	.sing:
a first network device, the fi	.rst
network device transmitting using batter	y power;
a second network device;	
manns within the second networ	k device
for identifying a range value indicative	e of the

distance between the first and second network devices;

the second network device responsive to the identifying means by indicating to the first network device an appropriate rate for subsequent data transmission to the second network device.

> (8) An RF local area network comprising: a first network device;

a battery power supply disposed for powering the first network device, the battery power supply having battery parameter information;

a second network device;

means within the second network device for identifying a range value indicative of the distance between the first and second network devices;

the second network device responsive to the identifying means by sending the range value to the first network device;

means within the first network device for identifying the battery parameter information; and

the first network device, based on the received range value and battery parameter information, identifying an appropriate data rate and power level for subsequent transmission to the second network device.

- (9) An RF local area network comprising:
  - a first network device;

a battery power supply disposed for powering the first network device, the battery power supply having battery parameter information;

a second network device;

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means within the second network device for identifying a range value indicative of the distance between the first and second network devices;

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the first network device transmitting battery parameter information to the second network device; and

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the second network device, based on the range value and received battery parameter information, indicating to the first network device an appropriate rate and power level for subsequent data transmission.